F.A. SECTION COUNTY 2666 00-00254-01-BR LAKE STA. 98+50 TO STA, 107+57 FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT

Sheet 15 of 35 Sheets PROJECT NO. BHM-8003(213) CONTRACT NO. 83875

GENERAL NOTES

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or according to the manufacturer's

recommendation after beams or girders have been erected and adjusted.

Prior to setting the boits, the holes shall be dry and all dust and loose

particles shall be removed by the use of compressed air or vacuuming.

The anchor boths, furnished and installed and including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for Furnishing and Erecting Structural Steel.

#### MATERIALS FOR ILLINOIS COIL-LOCK

The coil wire shall be made of any sultable soft steel wire. The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed.

The epoxy grout shall be a two-component, epoxy resin bonding system conforming to

# COIL-LOCK ANCHOR BOLT

The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures.

The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:

Location	Туре
S. Abut.	A307
S. Pler	A307
N. Pler	A307
N. Abut.	A 307

ASTM F 1554 Grade 105, ASTM A 449 and AASHTO M 314 Grade 105

## ANCHOR BOLT

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A 519, Grade 1026, CW and supplied with hexagonal nuts and cut washers.

ASTM C 881, Type I, Grade 1 and of a Class suitable for the temperature at installation.

### INSTALLATION PROCEDURE for the ILLINOIS

With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt.
 The nut shall be tensioned until the steel base plates are held securely to the concrete

Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the boll shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

#### ALTERNATE ANCHOR BOLTS

A threaded rod stud with nut and washer of the type specified.
 A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

Location	Туре
S. Abut.	A307
S. Pler	A307
N. Pler	A307
N. Abut.	A307

MURPHY & TILLY, INC.

**OCMT** 

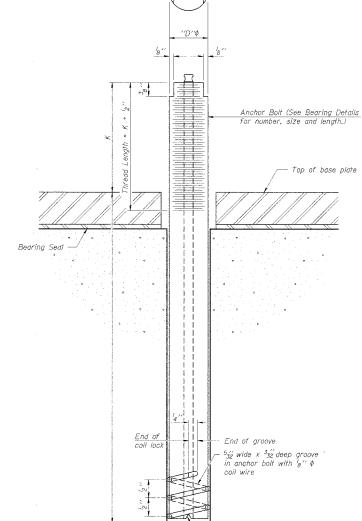
LAKE COUNTY DIVISION OF TRANSPORTATION ANCHOR BOLT DETAILS FOR BEARINGS

BUFFALO GROVE ROAD AT INDIAN CREEK BRIDGE SECTION 00-00254-01-BR STATION 101+50.00 LAKE COUNTY STRUCTURE NO. 049-3043 SCALE: NONE DRAWN BY: TBW DATE: 7/21/06 CHECKED BY: ATI, WK

ANCHOR BOLT DETAILS

Item which is the property of the Illinois Department of Transportation. Use, reproduction or disclosure without express written permission is prohibited and protected under Federal copyright laws. The production and the fabrication of this bolt for use on highway projects in the State of Illinois shall be permitted and there shall be no incurred charges or fees to the manufacturer or the fabricator for producing or fabricating this bolt.

18" 136" 134" 4" 138" 116" 2" 1/2" 158" 1516" 218" 2" 2" 218" 11316" 278" 2" 21/ 25/ 25/6" 33/8"



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''d''

## Holes with zerk

l<sub>16</sub>" at Bottom\_ of coil

**ABB-1** 4-30-99

PLAN-COIL WIRE

″Ε″φ ILLINOIS COIL-LOCK ANCHOR BOLT